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Page 2

US-09-027-089-1.ige

Mon Mar 15 10:37:39 1999

Query Match 100.0%; Score 20; DB 16; Length 1436;  
Best Local Similarity 100.0%; Pred. No. 1.06e-01;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

For SEQIDNO 1

Db 841 CAGCTGCTCTTCGCTGACG 860  
Qy 1 cagctgtctcttcgctgacg 20

RESULT 2 SS16SRONG 1459 bp DNA BCT 29-MAR-1996  
LOCUS S.shomron 16S rRNA gene.  
DEFINITION X80678  
ACCESSION g1240062  
NID 16S ribosomal RNA.  
KEYWORDS Salmonella shomron.  
SOURCE Salmonella shomron.  
ORGANISM Eubacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae; Salmonella.

REFERENCE 1 (bases 1 to 1459)  
Cilia, V., Lafay, B. and Christen, R.  
Existence of sequence heterogeneities among the seven operons of the rrr family in Escherichia coli - Small subunit ribosomal RNA heterogeneity, phylogenetic and taxonomic implications  
Unpublished  
2 (bases 1 to 1459)  
Lafay, B.  
Direct Submission  
Submitted (26-JUL-1994) B. Lafay, CNRS & Universite Paris 6, Station Zoologique, Observatoire Oceanologique, Villefranche sur Mer, 06230, FRANCE  
3 (bases 1 to 1459)  
Cilia, V., Lafay, B. and Christen, R.  
Sequence heterogeneities among 16S ribosomal RNA sequences, and their effect on phylogenetic analyses at the species level  
Mol. Biol. Evol. 13 (3), 451-461 (1996)  
JOURNAL  
MEDLINE  
FEATURES Location/Qualifiers  
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Query Match 100.0%; Score 20; DB 16; Length 1459;  
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Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 80 CAGCTGCTCTTCGCTGACG 99  
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Query Match 100.0%; Score 20; DB 16; Length 1541;  
Best Local Similarity 100.0%; Pred. No. 1.06e-01;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 80 CAGCTGCTCTTCGCTGACG 99  
Qy 1 cagctgtctcttcgctgacg 20

RESULT 4 SEU90318 1541 bp DNA BCT 21-MAR-1997  
LOCUS Salmonella enteritidis SE22 16S ribosomal RNA gene, complete  
DEFINITION sequence.  
ACCESSION U90318  
NID g1899237  
KEYWORDS Salmonella enteritidis.  
SOURCE Salmonella enteritidis.  
ORGANISM Eubacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae; Salmonella.

REFERENCE 1 (bases 1 to 1541)  
Subramaniam, G. and Pang, T.  
Direct Submission  
Submitted (21-FEB-1997) Institute for Advanced Studies, University of Malaya, Kuala Lumpur 50603, West Malaysia  
Location/Qualifiers  
1..1541  
/organism="Salmonella enteritidis"  
/strain="SE22"  
/db\_xref="taxon:592"  
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/product="16S ribosomal RNA"  
BASE COUNT 390 a 357 c 480 g 314 t  
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Query Match 100.0%; Score 20; DB 16; Length 1541;  
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Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 cagctgtctcttcgctgacg 20

6/11/for  
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Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 80 CAGCTGCTCTTCGCTGACG 99  
Qy 1 cagctgtctcttcgctgacg 20

RESULT 5 ECOPROT 4248 bp DNA BCT 03-MAR-1994  
LOCUS E.coli ATP-dependent protease binding subunit (clpB) gene, complete  
DEFINITION cds and 16S rRNA gene, 5' end.  
ACCESSION M29364 J01699 V00350  
NID g147363  
KEYWORDS 16S ribosomal RNA; ATP-binding protein; ATP-dependant protease; ATP-protease.  
SOURCE E.coli (strain K-12), clone pLC[23,30].  
ORGANISM Escherichia coli  
Eubacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae; Escherichia.

REFERENCE 1 (bases 2813 to 3930)  
Shen, W.-F., Squires, C.L. and Squires, C.L.  
Nucleotide sequence of the rrrg ribosomal RNA promoter region of Escherichia coli  
Nucleic Acids Res. 10, 3303-3313 (1982)  
JOURNAL  
MEDLINE  
REFERENCE 2 (bases 1 to 3130)  
Squires, C.L., Pedersen, S., Ross, B.M. and Squires, C.L.  
ClpB is the Escherichia coli heat shock protein F84.1

Db 80 CAGCTGCTCTTCGCTGACG 99  
Qy 1 cagctgtctcttcgctgacg 20

Phylogenetic analysis and identification of *Shigella* spp. by molecular probes

JOURNAL Mol. Cell. Probes 11 (6), 427-432 (1997)  
 MEDLINE 98164113  
 REFERENCE 2 (bases 1 to 1487)  
 AUTHORS Wang, R.  
 TITLE Direct Submission  
 JOURNAL Submitted (28-MAR-1996) R. Wang, Microbiology Division, National Center for Toxicological Research, FDA, 3900 NCTR DR., Jefferson, AR 72079, USA

FEATURES

source Location/Qualifiers  
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 /db\_xref="taxon:622"  
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Db 57 AAGAGCTTGTCTTGTCT 76  
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 QY 1 aaagcagctgtcttctgt 20

RESULT 7 Al4556 31 bp DNA PAT 29-SEP-1994  
 LOCUS Hybridization probe number 9 for the detection of *Escherichia coli*.  
 DEFINITION  
 ACCESSION Al4556  
 NID 9640877

KEYWORDS unidentified.  
 SOURCE unidentified.  
 ORGANISM unclassified.  
 REFERENCE 1 (bases 1 to 31)  
 AUTHORS Rossau, R. and Van Heuverswijn, H.  
 TITLE Hybridization probes for detecting neisseria strains  
 JOURNAL Patent: EP 0337896-A 87 18-OCT-1989;  
 N.V. INNOGENETICS S.A.

FEATURES

source Location/Qualifiers  
 1..31 /organism="Artificial sequences"  
 8 a 6 c 9 g 8 t

BASE COUNT 8 a 6 c 9 g 8 t  
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 Best Local Similarity 94.7%; Pred. No. 1.53e+01;  
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 9 AAGAGCTTGTCTTGTCT 27  
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 QY 2 aagcagctgtcttctgt 20

RESULT 8 A37179 185 bp DNA PAT 05-MAR-1997  
 LOCUS Sequence 52 from Patent WO9403634.  
 DEFINITION  
 ACCESSION A37179  
 NID 92294344

KEYWORDS unidentified.  
 SOURCE unidentified.  
 ORGANISM unclassified.  
 REFERENCE 1 (bases 1 to 185)  
 AUTHORS Grau, O., Kovacic, R. and Griffiths, R.  
 TITLE OLIGONUCLEOTIDE SEQUENCES FOR THE SPECIFIC DETECTION OF MOLLUSCUTES

BY AMPLIFICATION OF PRESERVED GENES  
 Patent: WO 9403634-A 52 17-FEB-1994;  
 PASTEUR INSTITUT (FR)  
 Other publication FR 2694768 940218.

COMMENT Location/Qualifiers  
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BASE COUNT 50 a 40 c 59 g 36 t  
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Db 29 AAGAGCTTGTCTTGTCT 47  
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 QY 2 aagcagctgtcttctgt 20

RESULT 9 ECRRNG 1436 bp DNA BCT 07-JUL-1995  
 LOCUS Start of the *E. coli* gene for 16S rRNA. Also contains part of  
 DEFINITION unknown reading frame.  
 ACCESSION V00350  
 NID 942885

KEYWORDS 16S ribosomal RNA; ribosomal RNA; unidentified reading frame.  
 SOURCE *Escherichia coli*.  
 ORGANISM *Escherichia coli*.  
 Eubacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;  
*Escherichia*.

REFERENCE 1 (bases 1 to 1436)  
 AUTHORS Shen, W.F., Squires, C. and Squires, C.L.  
 TITLE Nucleotide sequence of the rrnG ribosomal RNA promoter region of  
*Escherichia coli*  
 JOURNAL Nucleic Acids Res. 10 (10), 3303-3313 (1982)  
 MEDLINE 82247208

FEATURES

source Location/Qualifiers  
 1..1436 /organism="Escherichia coli"  
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 <1..318 /note="unknown reading frame"  
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 AVQ"

BASE COUNT 393 a 316 c 404 g 323 t  
 ORIGIN

Query Match 85.0%; Score 17; DB 16; Length 1436;  
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 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 838 AAGAGCTTGTCTTGTCT 856  
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 QY 2 aagcagctgtcttctgt 20

RESULT 10 SS16SRDNG 1459 bp DNA BCT 29-MAR-1996  
 LOCUS S.shomron 16S rRNA gene.  
 DEFINITION  
 ACCESSION x80678  
 NID g1240062

KEYWORDS 16S ribosomal RNA.  
 SOURCE *Salmonella shomron*.  
 \* FOR SEQ ID NO 2

ORGANISM Salmonella shomron  
Eubacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;  
Salmonella.  
REFERENCE 1 (bases 1 to 1459)  
AUTHORS Cilia, V., Lafay, B. and Christen, R.  
TITLE Existence of sequence heterogeneities among the seven operons of the rrm family in Escherichia coli - Small subunit ribosomal RNA heterogeneity, phylogenetic and taxonomic implications  
JOURNAL Unpublished  
AUTHORS 2 (bases 1 to 1459)  
Lafay, B.  
REFERENCE Direct Submission  
TITLE Submitted (26-JUL-1994) B. Lafay, CNRS & Universite Paris 6,  
JOURNAL Station Zoologique, Observatoire Oceanologique, Villiefranche Sur Mer, 06230, FRANCE  
REFERENCE 3 (bases 1 to 1459)  
AUTHORS Cilia, V., Lafay, B. and Christen, R.  
TITLE Sequence, heterogeneities among 16S ribosomal RNA sequences, and their effect on phylogenetic analyses at the species level  
JOURNAL Mol. Biol. Evol. 13 (3), 451-461 (1996)  
MEDLINE 96351315  
FEATURES Location/Qualifiers  
source 1..1459  
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Best Local Similarity 94.7%; Pred. No. 1.53e+01;  
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Db 77 AAGCAGCTTGCTCTTCGCT 95  
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QY 2 aagcagcttgctcttgc 20

RESULT 11  
LOCUS SEU90318 1541 bp DNA BCT 21-MAR-1997  
DEFINITION Salmonella enteritidis SE22 16S ribosomal RNA gene, complete sequence.  
ACCESSION U90318  
NID g1899237  
KEYWORDS Salmonella enteritidis.  
SOURCE Salmonella enteritidis.  
ORGANISM Eubacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;  
REFERENCE 1 (bases 1 to 1541)  
AUTHORS Subramaniam, G. and Pang, T.  
TITLE Direct Submission  
JOURNAL Submitted (21-FEB-1997) Institute for Advanced Studies, University of Malaya, Kuala Lumpur 50603, West Malaysia  
FEATURES Location/Qualifiers  
source 1..1541  
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/product="16S ribosomal RNA"  
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Best Local Similarity 94.7%; Pred. No. 1.53e+01;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Db 77 AAGCAGCTTGCTCTTCGCT 95  
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QY 2 aagcagcttgctcttgc 20

ORGANISM Salmonella shomron  
Eubacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;  
Salmonella.  
REFERENCE 1 (bases 1 to 1459)  
AUTHORS Cilia, V., Lafay, B. and Christen, R.  
TITLE Existence of sequence heterogeneities among the seven operons of the rrm family in Escherichia coli - Small subunit ribosomal RNA heterogeneity, phylogenetic and taxonomic implications  
JOURNAL Unpublished  
AUTHORS 2 (bases 1 to 1459)  
Lafay, B.  
REFERENCE Direct Submission  
TITLE Submitted (26-JUL-1994) B. Lafay, CNRS & Universite Paris 6,  
JOURNAL Station Zoologique, Observatoire Oceanologique, Villiefranche Sur Mer, 06230, FRANCE  
REFERENCE 3 (bases 1 to 1459)  
AUTHORS Cilia, V., Lafay, B. and Christen, R.  
TITLE Sequence, heterogeneities among 16S ribosomal RNA sequences, and their effect on phylogenetic analyses at the species level  
JOURNAL Mol. Biol. Evol. 13 (3), 451-461 (1996)  
MEDLINE 96351315  
FEATURES Location/Qualifiers  
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BASE COUNT 368 a 332 c 463 g 282 t 14 others  
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Query Match 85.0%; Score 17; DB 16; Length 1459;  
Best Local Similarity 94.7%; Pred. No. 1.53e+01;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Db 77 AAGCAGCTTGCTCTTCGCT 95  
|||||  
QY 2 aagcagcttgctcttgc 20

RESULT 11  
LOCUS SEU90318 1541 bp DNA BCT 21-MAR-1997  
DEFINITION Salmonella enteritidis SE22 16S ribosomal RNA gene, complete sequence.  
ACCESSION U90318  
NID g1899237  
KEYWORDS Salmonella enteritidis.  
SOURCE Salmonella enteritidis.  
ORGANISM Eubacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;  
REFERENCE 1 (bases 1 to 1541)  
AUTHORS Subramaniam, G. and Pang, T.  
TITLE Direct Submission  
JOURNAL Submitted (21-FEB-1997) Institute for Advanced Studies, University of Malaya, Kuala Lumpur 50603, West Malaysia  
FEATURES Location/Qualifiers  
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rRNA 1..1541  
/db\_xref="taxon:592"  
/product="16S ribosomal RNA"  
BASE COUNT 390 a 357 c 480 g 314 t  
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Query Match 85.0%; Score 17; DB 16; Length 1541;  
Best Local Similarity 94.7%; Pred. No. 1.53e+01;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Db 77 AAGCAGCTTGCTCTTCGCT 95  
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QY 2 aagcagcttgctcttgc 20

RESULT 12  
LOCUS SBV90314 1541 bp DNA BCT 21-MAR-1997  
DEFINITION Salmonella blockley Sbl 16S ribosomal RNA gene, complete sequence.  
ACCESSION U90314  
NID g1899233  
KEYWORDS Salmonella blockley.  
SOURCE Salmonella blockley.  
ORGANISM Eubacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;  
REFERENCE 1 (bases 1 to 1541)  
AUTHORS Subramaniam, G. and Pang, T.  
TITLE Direct Submission  
JOURNAL Submitted (21-FEB-1997) Institute for Advanced Studies, University of Malaya, Kuala Lumpur 50603, West Malaysia  
FEATURES Location/Qualifiers  
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/db\_xref="taxon:57741"  
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/product="16S ribosomal RNA"  
BASE COUNT 389 a 352 c 488 g 312 t  
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Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Db 77 AAGCAGCTTGCTCTTCCT 95  
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QY 2 aagcagcttgctcttgc 20

RESULT 13  
LOCUS SCU92192 1541 bp DNA BCT 01-APR-1997  
DEFINITION Salmonella chingola 16S ribosomal RNA gene, complete sequence.  
ACCESSION U92192  
NID g1916304  
KEYWORDS Salmonella chingola.  
SOURCE Salmonella chingola.  
ORGANISM Eubacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;  
REFERENCE 1 (bases 1 to 1541)  
AUTHORS Subramaniam, G. and Pang, T.  
TITLE Direct Submission  
JOURNAL Submitted (28-FEB-1997) Institute for Advanced Studies, University of Malaya, Kuala Lumpur 50603, Malaysia  
FEATURES Location/Qualifiers  
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/strain="Schl"  
rRNA 1..1541  
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Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Db 77 AAGCAGCTTGCTCTTCCT 95  
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QY 2 aagcagcttgctcttgc 20

RESULT 14  
LOCUS A14565 1541 bp DNA PAT 29-SEP-1994  
DEFINITION 16S rRNA.  
ACCESSION A14565

5

Cilia, V., Lafay, B. and Christen, R.  
 Sequence heterogeneities among 16S ribosomal RNA sequences, and  
 their effect on phylogenetic analyses at the species level  
 Mol. Biol. Evol. 13 (3), 451-461 (1996)  
 JOURNAL 96351315  
 REFERENCE 2 (bases 1 to 1385)  
 AUTHORS Lafay, B.  
 TITLE Direct Submission  
 JOURNAL Submitted (26-JUL-1994) B. Lafay, CNRS & Universite Paris 6,  
 Station Zoologique, Observatoire Oceanologique, Villefranche Sur  
 Mer, 06230, FRANCE  
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 QY 1 gaagctgtcttcttctgtac 21  
 \* RESULT 6 ECRNHPK3 1417 bp DNA BCT 29-MAR-1996  
 LOCUS E.coli rrnH gene.  
 DEFINITION X80730  
 ACCESSION g1240031  
 NID 16S ribosomal RNA; 16S rRNA gene; 16S small subunit ribosomal RNA.  
 KEYWORDS Escherichia coli.  
 SOURCE Escherichia coli.  
 ORGANISM Escherichia.  
 REFERENCE 1 (bases 1 to 1417)  
 AUTHORS Cilia, V., Lafay, B. and Christen, R.  
 TITLE Sequence heterogeneities among 16S ribosomal RNA sequences, and  
 their effect on phylogenetic analyses at the species level  
 JOURNAL Mol. Biol. Evol. 13 (3), 451-461 (1996)  
 MEDLINE 96351315  
 REFERENCE 2 (bases 1 to 1417)  
 AUTHORS Lafay, B.  
 TITLE Direct Submission  
 JOURNAL Submitted (26-JUL-1994) B. Lafay, CNRS & Universite Paris 6,  
 Station Zoologique, Observatoire Oceanologique, Villefranche Sur  
 Mer, 06230, FRANCE  
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 Best Local Similarity 100.0%; Pred. No. 1.54e-01;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Db 37 GAAGCTGCTTCTTGTGTCAC 57

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 QY 1 gaagctgtcttcttctgtac 21  
 RESULT 7 PSU85856 1428 bp DNA BCT 20-AUG-1997  
 LOCUS Pseudoalteromonas sp. IC006 16S ribosomal RNA gene, partial  
 DEFINITION sequence.  
 ACCESSION U85856  
 NID g1850388  
 KEYWORDS Pseudoalteromonas sp.  
 SOURCE Pseudoalteromonas sp.  
 ORGANISM Eubacteria; Proteobacteria; gamma subdivision; Pseudoalteromonas.  
 REFERENCE 1 (bases 1 to 1428)  
 AUTHORS Bowman, J.P., McCammon, S.A., Brown, M.V., Nichols, D.S. and  
 McMeekin, T.A.  
 TITLE Diversity and association of psychrophilic bacteria in Antarctic  
 sea ice  
 JOURNAL Appl. Environ. Microbiol. 63 (8), 3068-3078 (1997)  
 MEDLINE 97394931  
 REFERENCE 2 (bases 1 to 1428)  
 AUTHORS Bowman, J.P., McCammon, S.A., Brown, M.V. and McMeekin, T.A.  
 TITLE Direct Submission  
 JOURNAL Submitted (21-JAN-1997) Antarctic CRC, University of Tasmania, GPO  
 Box 252-80, Hobart, Tasmania 7001, Australia  
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 /db\_xref="taxon:53249"  
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 /product="16S ribosomal RNA"  
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 Db 53 GAAGCTGCTTCTTGTGTCAC 73  
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 QY 1 gaagctgtcttcttctgtac 21  
 RESULT 8 HVU15102 1439 bp DNA BCT 16-MAR-1995  
 LOCUS Hydrothermal vent eubacterium PVB\_OTU\_2 clone PVB\_63, small subunit  
 DEFINITION rRNA gene.  
 ACCESSION U15102  
 NID g710311  
 KEYWORDS hydrothermal vent eubacterium PVB\_OTU\_2.  
 SOURCE hydrothermal vent eubacterium PVB\_OTU\_2  
 ORGANISM Eubacteria.  
 REFERENCE 1 (bases 1 to 1439)  
 AUTHORS Moyer, C.L., Dobbs, F.C. and Karl, D.M.  
 TITLE Phylogenetic diversity of the bacterial community from a microbial  
 mat at an active, hydrothermal vent system, Hawaii  
 JOURNAL Unpublished  
 REFERENCE 2 (bases 1 to 1439)  
 AUTHORS Moyer, C.L.  
 TITLE Direct Submission  
 JOURNAL Submitted (26-SEP-1994) Craig L. Moyer, Department of Oceanography,  
 University of Hawaii, 1000 Pope Road, Honolulu, HI 96822, USA  
 FEATURES Location/Qualifiers  
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 /clone\_lib="Pele's Vents Bacterial; isolated from a  
 PCR-generated bacterial clone library, Appl. Environ.  
 Microbiol. 60:871-879"